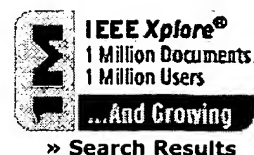


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1 A fuzzy-logic autonomous agent applied as a supervisory controller in a simulated environment

Chrysanthakopoulos, G.; Fox, W.L.J.; Miyamoto, R.T.; Marks, R.J., II; El-Sharkawi, M.A.; Healy, M.;

Fuzzy Systems, IEEE Transactions on , Volume: 12 , Issue: 1 , Feb. 2004
Pages:107 - 122

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2 'Online recognition of Chinese characters: the state-of-the-art

Liu, C.-L.; Jaeger, S.; Nakagawa, M.;

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26 , Issue: 2 , Feb 2004
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4 A new design method for the complex-valued multistate Hopfield associative memory

Muezzinoglu, M.K.; Guzelis, C.; Zurada, J.M.;

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Pages:891 - 899

[\[Abstract\]](#) [\[PDF Full-Text \(1009 KB\)\]](#) **IEEE JNL**

5 Object tracking using the Gabor wavelet transform and the golden

section algorithm*Chao He; Zheng, Y.F.; Ahalt, S.C.;*

Multimedia, IEEE Transactions on , Volume: 4 , Issue: 4 , Dec. 2002

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[\[Abstract\]](#) [\[PDF Full-Text \(1003 KB\)\]](#) [IEEE JNL](#)**6 Region-based representations of image and video: segmentation tools for multimedia services***Salembier, P.; Marques, F.;*

Circuits and Systems for Video Technology, IEEE Transactions on , Volume:

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Knowledge and Data Engineering, IEEE Transactions on , Volume: 9 , Issue:

3 , May-June 1997

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[\[Abstract\]](#) [\[PDF Full-Text \(424 KB\)\]](#) [IEEE JNL](#)**8 A real-time matching system for large fingerprint databases***Ratha, N.K.; Karu, K.; Shaoyun Chen; Jain, A.K.;*

Pattern Analysis and Machine Intelligence, IEEE Transactions on , Volume:

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6 A versatile SPICE model for quantum-well lasers

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Rothwell, E.J.; Baker, J.; Chen, K.-M.; Nyquist, D.P.;

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Solid-State Circuits, IEEE Journal of , Volume: 23 , Issue: 5 , Oct. 1988

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11 A physically oriented model to quantify the dynamic noise margin [on-chip noise]

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12 Validation of klystron development code-KLYS 4.5

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16 Correlation and validation of a CFD based hydrodynamic and dynamic model for a towed undersea vehicle

Humphreys, D.E.;

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17 CAD-oriented equivalent circuit modeling of on-chip interconnects in CMOS technology

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Fusion Engineering, 1995. SOFE '95. 'Seeking a New Energy Era', 16th IEEE/NPSS Symposium, Volume: 1, 30 Sept.-5 Oct. 1995

Pages:509 - 512 vol.1

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20 An approximate performance model for load-dependent interactive

queues with application to load balancing in distributed systems*Liu, H.T.; Silvester, J.;*

INFOCOM '88. Networks: Evolution or Revolution? Proceedings. Seventh Annual Joint Conference of the IEEE Computer and Communications Societies., IEEE , 27-31 March 1988

Pages:956 - 965

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1 [Atomicity and isolation for transactional processes](#)

Heiko Schuldt, Gustavo Alonso, Catriel Beeri, Hans-Jörg Schek

March 2002

ACM Transactions on Database Systems (TODS), Volume 27 Issue 1

Full text available: [pdf\(1.22 MB\)](#)

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Processes are increasingly being used to make complex application logic explicit. Programming using processe problem from the system point of view in that the interactions between processes cannot be controlled using steps of a process are different from operations within a transaction. Each one has its own termination seman steps. Regarding c ...

Keywords: Advanced transaction models, business process management, electronic commerce, execution gu transactions, transactional workflows, unified theory of concurrency control and recovery

2 [Using Time Instead of Timeout for Fault-Tolerant Distributed Systems.](#)

Leslie Lamport

April 1984 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 6 Issue 2

Full text available: [pdf\(1.81 MB\)](#)

Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

3 [Process Structuring](#)

J. J. Horning, B. Randell

January 1973 **ACM Computing Surveys (CSUR)**, Volume 5 Issue 1

Full text available: [pdf\(2.34 MB\)](#)

Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

4 [Parlog86 and the dining logicians](#)

G. A. Ringwood

January 1988 **Communications of the ACM**, Volume 31 Issue 1

Full text available: [pdf\(1.90 MB\)](#)



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A classic problem in concurrent programming is that of the "dining philosophers" which challenges the power a growing number of logic programming languages have been refined to handle concurrent programming, one

5 [Slot grammars](#)

Michael C. McCord

January 1980 **Computational Linguistics**, Volume 6 Issue 1

Full text available:  [pdf\(1.27 MB\)](#)  [Publisher Site](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

This paper presents an approach to natural language grammars and parsing in which slots and rules for filling a natural way of handling a wide variety of grammatical phenomena, such as WH-movement, verb dependenc

6 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collabora**

Full text available:  [pdf\(4.21 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index te](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time dia of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the Uni very complex and do not provide the user with the desired overview of the application. In our experience, suc commun ...

7 [Draft Proposed: American National Standard—Graphical Kernel System](#)

Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue SI

Full text available:  [pdf\(16.07 MB\)](#)

Additional Information: [full citation](#)

8 [Compositional verification of concurrent systems using Petri-net-based condensation rules](#)

Eric Y. T. Juan, Jeffrey J. P. Tsai, Tadao Murata

September 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue

Full text available:  [pdf\(578.81 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), _____


The state-explosion problem of formal verification has obstructed its application to large-scale software system condensation theories: IOT-failure equivalence, IOT-state equivalence, and firing-dependence theory to cope weaker than current theories used for the compositional verification of Petri nets. More significantly, our new behaviors ...

Keywords: Petri nets, boundedness, compositional verification, deadlock states, reachability analysis, reacha

9 [Common knowledge](#)

John Geanakoplos

March 1992 **Proceedings of the 4th conference on Theoretical aspects of reasoning about knowle**


Full text available:  [pdf\(3.29 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

People, no matter how rational they are, usually act on the basis of incomplete information. If they are ration carefully on what they know and what they do not know, before choosing how to act. Furthermore, when ratio others know, and what the others know about what they know, before choosing how to act. Failing to do so c Professor Moriarty conf ...

10 [FORTRAN vs. Basic FORTRAN: a programming language for informational processing on automatic d](#)

October 1964 **Communications of the ACM**, Volume 7 Issue 10

Full text available:  [pdf\(3.90 MB\)](#)

Additional Information: [full citation](#)

11 [Data allocation in distributed database systems](#)

Peter M. G. Apers

September 1988 **ACM Transactions on Database Systems (TODS)**, Volume 13 Issue 3

Full text available:  [pdf\(3.30 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), _____

The problem of allocating the data of a database to the sites of a communication network is investigated. This problem in several aspects. First, the objects to be allocated are not known a priori; second, these objects are between objects to produce the result. A model that makes it possible to compare the cost of allocations is pr

functi ...

12 Multilevel μ TESLA: Broadcast authentication for distributed sensor networks

Donggang Liu, Peng Ning

November 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 4

Full text available:  pdf(410.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index te](#)

Broadcast authentication is a fundamental security service in distributed sensor networks. This paper presents an authentication scheme named *multilevel μ TESLA* based on μ TESLA, a broadcast authentication protocol with parameter distribution. Multilevel μ TESLA satisfies several nice properties, including low overhead, tolerance of

Keywords: Broadcast authentication, TESLA, sensor networks

13 Special issue on wireless pan & sensor networks: Design and analysis of Hybrid Indirect Transmission networks

Benjamin J. Culpepper, Lan Dung, Melody Moh

January 2004 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 8 Issue 1

Full text available:  pdf(440.82 KB)


Additional Information: [full citation](#), [abstract](#), [references](#)

Sensor networks have many potential applications in biology, physics, medicine, and the military. One major challenge is operating under the constraint of limited power supply. The paper addresses energy-efficiency in the context of routing. Indirect Transmission (HIT). HIT is based on a hybrid architecture that consists of one or more clusters, each with a transmiss ...

14 The deductive synthesis of database transactions

Xiaolei Qian

December 1993 **ACM Transactions on Database Systems (TODS)**, Volume 18 Issue 4

Full text available:  pdf(3.27 MB)


Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: database programming, deductive tableau, integrity constraints, search control, transaction logic

15 Reasoning about systems with many processes

Steven M. German, A. Prasad Sistla

July 1992 **Journal of the ACM (JACM)**, Volume 39 Issue 3

Full text available:  pdf(4.54 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), _____

Methods are given for automatically verifying temporal properties of concurrent systems containing an arbitrary number of processes using CCS actions. Two models of systems are considered. Systems in the first model consist of a unique component with identical definitions. For this model, a decision procedure to check whether all the executions of a process

16 Dynamic voting algorithms for maintaining the consistency of a replicated database

S. Jajodia, David Mutchler

June 1990 **ACM Transactions on Database Systems (TODS)**, Volume 15 Issue 2

Full text available:  pdf(4.07 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), _____

There are several replica control algorithms for managing replicated files in the face of network partitioning. Dynamic voting algorithms ensure consistency at the price of reduced availability; they permit at most one (distinguished) partition. A well-known pessimistic algorithm, voting, is a "static" algorithm, meaning that all potential distinguished partitions

17 Synthesis of concurrent systems with many similar processes

Paul C. Attie, E. Allen Emerson

January 1998 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 20 Issue 1

Full text available:  pdf(1.05 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), _____

Methods for synthesizing concurrent programs from temporal logic specifications based on the use of a decision procedure


been proposed by Emerson and Clarke and by Manna and Wolper. An important advantage of these synthesis methods is that they compose a program and manually construct a proof of its correctness. One only has to formulate a precise pre-condition and mechanically constructs a ...

Keywords: concurrent programs, program synthesis, temporal logic

18 Termination of Probabilistic Concurrent Program

Sergiu Hart, Micha Sharir, Amir Pnueli

July 1983 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 5 Issue 3

Full text available:  [pdf\(1.63 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

19 Ad hoc networks: Analysis of link reversal routing algorithms for mobile ad hoc networks

Costas Busch, Srikanth Surapaneni, Srikanta Tirthapura

June 2003 **Proceedings of the fifteenth annual ACM symposium on Parallel algorithms and architectures**

Full text available:  [pdf\(256.22 KB\)](#)

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Link reversal algorithms provide a simple mechanism for routing in mobile ad hoc networks. These algorithms work in a distributed manner, even when the network topology changes frequently. In link reversal, a node reverses its incident links if it has a higher link cost than its neighbors. Link reversal algorithms have been studied experimentally and have been used in practical routing algorithms, including performance analysis ...

Keywords: ad hoc networks, gallager-berstel, link reversal routing

20 A comparative study of arbitration algorithms for the Alpha 21364 pipelined router

Shubhendu S. Mukherjee, Federico Silla, Peter Bannan, Joel Emer, Steve Lang, David Webb

October 2002 **Proceedings of the 10th international conference on Architectural support for programming languages**, Volume 10, Number 3, 36, 37 Issue 5, 5, 10

Full text available:  [pdf\(1.44 MB\)](#)

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Interconnection networks usually consist of a fabric of interconnected routers, which receive packets arriving at their input ports and forward them to their output ports. Unfortunately, network packets moving through these routers are often delayed due to contention for router resources. Hence, routers typically employ *arbiters* that resolve conflicting resource demands to maximize the network throughput ...

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21 Learning bias and phonological-rule induction

Daniel Gildea, Daniel Jurafsky

December 1996 **Computational Linguistics**, Volume 22 Issue 4

Full text available: pdf(2.25 MB) [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A fundamental debate in the machine learning of language has been the role of prior knowledge in the learnin Principles and Parameters model, build parameterized linguistic generalizations directly into the learning syste independent learning rule (Error Back-Propagation, Instance-based Generalization, Minimum Description Leng data.In this ...

22 Using permutations in regenerative simulations to reduce variance

James M. Calvin, Marvin K. Nakayama

April 1998 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 8 Issue 2

Full text available: pdf(263.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), ____

We propose a new estimator for a large class of performance measures obtained from a regenerative simulati regeneration times. To construct our new estimator, we first generate a sample path of a fixed number of cyc the path into segments based on the second sequence of regeneration times, permute the segments, and calc sequence of regenerati ...

Keywords: efficiency improvement, permutations, regenerative simulation, variance reduction

23 The interdisciplinary study of coordination

Thomas W. Malone, Kevin Crowston

March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Full text available: pdf(584.94 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), ____

This survey characterizes an emerging research area, sometimes called coordination theory, that focuses on t this area uses and extends ideas about coordination from disciplines such as computer science, organization t psychology. A key insight of the framework presented here is that coordination can be seen as the process of

Keywords: computer-supported cooperative work, coordination, coordination science, coordination theory, g

24 Special issue on using large corpora: I: Generalized probabilistic LR parsing of natural language (Corp

Ted Briscoe, John Carroll

March 1993 **Computational Linguistics**, Volume 19 Issue 1

Full text available:

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

 pdf(2.62 MB)  Publisher Site


We describe work toward the construction of a very wide-coverage probabilistic parsing system for natural language. The system is intended to rank the large number of syntactic analyses produced by NL grammars according to the one that is deployed in each analysis. We discuss a fully automatic procedure for constructing an LR parse table from a suitability of alternative ...

25 A asynchronous buffering network for tightly coupled multiprocessors

Yvon Jegou, Andre Seznee

June 1986

Proceedings of the 3rd international conference on Supercomputing

Full text available:  pdf(1.30 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In order to reach high performance, many levels of parallelism should be exploited simultaneously on massive system heavily depends on the interconnection between the processing elements and the memories: asynchronous requests when independent tasks are run, but a strict control of the network is necessary for fine grain parallel delivery ...

26 Sorting on Electronic Computer Systems

Edward H. Friend

July 1956 **Journal of the ACM (JACM)**, Volume 3 Issue 3

Full text available:  pdf(2.39 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

27 Parallel resource allocation algorithms on macro-pipelined architectures

K. M. Mossaad, C. L. Wu

April 1999 **Proceedings of the 19th annual conference on Computer Science**

Full text available:  pdf(775.62 KB)

Additional Information: [full citation](#), [references](#)

28 An algorithm for the blocks and cutnodes of a graph

Keith Paton

July 1971

Communications of the ACM, Volume 14 Issue 7

Full text available:  pdf(708.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

An efficient method is presented for finding blocks and cutnodes of an arbitrary undirected graph. The graph may be represented (i) as a packed adjacency matrix. If w denotes the word length of the machine employed, the storage (in memory) for m edges increases essentially as $2(m + n)$ in case (i), or n^2 in case (ii).

Keywords: algorithm, block, block-cutpoint-tree, cutnode, fundamental cycle set, graph, lobe, lobe decomposition

29 Optimal tracing and replay for debugging message-passing parallel programs

R. H. B. Netzer, B. P. Miller

December 1992 **Proceedings of the 1992 ACM/IEEE conference on Supercomputing**

Full text available:  pdf(1.04 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

30 Concurrency control by transactions carrying states and preordering unversioned entities

Mohan L. Ahuja, J. C. Browne

February 1988

Proceedings of the 1988 ACM sixteenth annual conference on Computer science

Full text available:  pdf(1.41 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present a concurrency control protocol for databases with unversioned entities; the databases may not have data replication. In this protocol, entities are assigned an order and whenever possible each transaction need not be accessed by a transaction may be skipped by the transaction, and out-of-order accesses are permitted ...

31 The overhead of locking (and commit) protocols in distributed databases

Ouri Wolfson

September 1987 **ACM Transactions on Database Systems (TODS)**, Volume 12 Issue 3

Full text available:  [pdf\(1.56 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), _____

The main purpose of a locking protocol is to ensure correct interleaving of actions executed by concurrent transactions dictating how accessed entities should be locked and unlocked. As a result of obeying the rules, transactions incur three measures of evaluating this overhead, each most suitable to a different type of underlying communication.

32 Design and performance evaluation of a MAC protocol for wireless local area networks

Marco Conti, Claudio Demaria, Lorenzo Donatiello

June 1997 **Mobile Networks and Applications**, Volume 2 Issue 1

Full text available:  [pdf\(650.15 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), _____

We propose and analyze, from a performance viewpoint, a Medium Access Control (MAC) protocol for Wireless Prioritized-Access with Centralized-Control (PACC), which supports integrated traffic by guaranteeing an almost complete protocol combines random access for signalling, with collision-free access to the transmission channel. The traffic is grouped into ...

33 Partial evaluation of pattern matching in constraint logic programming languages

Donald A. Smith

May 1991

ACM SIGPLAN Notices , Proceedings of the 1991 ACM SIGPLAN symposium on Partial evaluation and manipulation, Volume 26 Issue 9

Full text available:  [pdf\(957.80 KB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index term](#)

34 Usability analysis with Markov models

Harold Thimbleby, Paul Cairns, Matt Jones

June 2001

ACM Transactions on Computer-Human Interaction (TOCHI), Volume 8 Issue 2

Full text available:  [pdf\(289.08 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), _____


How hard is it for users to find interactive devices to use to achieve their goals, and how can we get this information? Markov modeling can obtain suitable measures, and we provide formulas that can be used for a large class of examples for various real examples. We introduce a "knowledge/usability graph," which shows the impact of even a small extent ...

Keywords: Markov models, usability analysis

35 Retrieving video data via motion tracks of content symbols

Tim T. Y. Wai, Arbee L. P. Chen

January 1997 **Proceedings of the sixth international conference on Information and knowledge management**

Full text available:  [pdf\(1.20 MB\)](#)

Additional Information: [full citation](#), [references](#), [index terms](#)

36 Distributed computing: A pleasant stroll through the land of infinitely many creatures

Marcos K. Aguilera

June 2004

ACM SIGACT News, Volume 35 Issue 2

Full text available:  [pdf\(281.95 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#)

Many distributed algorithms are designed for a system with a fixed set of n processes. However, some systems that the number of processes may grow to infinity as time tends to infinity. This paper considers such systems (not necessarily efficient) for common problems. The reason for simplicity is to better expose some of the algorithm processes. A ...

37 A data structure for arc insertion and regular path finding

Adam L. Buchsbaum, Paris C. Kanellakis, Jeffrey S. Vitter

January 1990 **Proceedings of the first annual ACM-SIAM symposium on Discrete algorithms**

Full text available:  pdf(1.01 MB)


Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

38 A Majority consensus approach to concurrency control for multiple copy databases

Robert H. Thomas

June 1979

ACM Transactions on Database Systems (TODS), Volume 4 Issue 2

Full text available:  pdf(2.32 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A "majority consensus" algorithm which represents a new solution to the update synchronization problem for embodied distributed control and can function effectively in the presence of communication and database site demonstrated and the cost of using it is analyzed. Several examples that illustrate aspects of the algorithm are

Keywords: clock synchronization, computer networks, concurrency control, distributed computation, distributed systems, update synchronization

39 A workload characterization pipeline for models of parallel systems

William Alexander, Tom W. Keller, Ellen E. Boughter

May 1987

ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1987 ACM SIGMETRICS performance modeling of computer systems, Volume 15 Issue 1

Full text available:  pdf(961.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The same application implemented on different systems will necessarily present different workloads to the system. If the system represents the same application, but input to models of different systems, must also differ in analogous ways. workload at increasing levels of detail such that every characterization at a lower level still accurately represents

40 Consensus numbers of multi-objects

Eric Ruppert

June 1998

Proceedings of the seventeenth annual ACM symposium on Principles of distributed computing


Full text available:  pdf(987.38 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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